

CLAIMS

1. A system for increasing the productivity of oil, gas and hydrogeological wells, comprising means for cutting slots only in a near well zone so as to perform a partial unloading of the well and to remove a part of support stresses; and means for cyclically treating well with a formation-treating substance so as to remove a remaining part of the support stresses, with controlling a density of a formation and correcting the cyclical treatment in correspondence with the density of the formation.

2. A system as defined in claim 1, wherein said slot cutting means is operative for slot cutting which includes cutting of slots only in a surrounding column, a cement layer, and a part of rock which immediately adjoins the well.

~~3. A system as defined in claim 2, wherein said slot cutting means is operative for slot cutting which includes preliminarily determining a porosity of rock of the formation of the near well zone and a depth of a~~

~~zone of support stresses, while the cyclical treatment is performed in dependence on the determined porosity and the depth.~~

~~4. A system as defined in claim 1, wherein said cyclical treatment means includes means which, before each cycle, determine a radius of a zone of support pressure and a maximum stress acting in it, and perform the cyclical treatment for all parts of a formation adjoining the well including the zone of support pressure, and after each cycle of the cyclical treatment control a change of density or permeability of rock in the zone of support pressure.~~

~~5. A system as defined in claim 1; and further comprising means for introducing the formation-treating substance in form of jets.~~

~~6. A system as defined in claim 5, wherein said introducing means introduce the formation-treating substance which includes solutions of $\text{NaHSO}_4 \times \text{H}_2\text{O}$ and/or $(\text{NH})_4\text{S}_7\text{O}_8$ with concentration 4-7% and with~~

~~admixtures of anion active surface active substance or a mixture of anion active and non ionogenic surface active substance with concentration 0.5-2%~~

7. A system as defined in claim 5, wherein said substance introducing means introduce the formation-treating substance which includes a solution of $\text{NH}_2\text{SO}_4\text{H}$ with admixtures of anion active surface active substance or a mixture of anion active and non ionogenic surface active substance with concentration 0.2-0.4% and polyphosphate with concentration 0.1-0.2% or solution of CH_3COCl with concentration 6-2% with admixtures of anion active surface active substance or a mixture of anion active and non ionogenic surface active substance with concentration of 0.5-1% and a polyphosphates with concentration 0.1-0.2%, and the polyphosphates include $\text{Na}_5\text{P}_3\text{O}_{10}$ and/or $\text{Na}_2[\text{Na}_n(\text{PO}_3)_6]$.

8. A system as defined in claim 1; and further comprising means for preparing the formation-treating substance directly in a well, and in an interval of a formation.

9. A system as defined in claim 8, wherein said means for preparing the formation treating substance including means using chemical agents in a transporting package, delivering the transporting package with the agents into the formation, and removing the transporting package.

10. A system as defined in claim 9, wherein said transporting package is a microcontainer formed as a capsule with soluble wall.

11. A system as defined in claim 10, wherein said soluble wall is composed of a soluble polyesthylene film.

12. A system as defined in claim 10, wherein said microcontainer is composed of a binder, which is soluble in water without residues.

13. A system as defined in claim 10, wherein said microcontainer has a shape selected of the group consisting of a ball shape and a cylinder shape.

14. A system as defined in claim 1, wherein said means include a surface equipment and an underground equipment.

15. A system as defined in claim 14, wherein said surface equipment includes a fountain equipment, filters for cleaning a pulp, a block of manifolds, a pulp, a block of manifolds, a pump aggregate, a sand mixing equipment, and a contaminant, said underground equipment including a coupling clutch, an underground engine, a hydrojet perforator and a valve control system.